

NEW SPECIES OF HETEROCERA FROM TROPICAL AMERICA.—II.

BY WILLIAM SCHAUS.

Givira platea.

Head, collar, thorax, and subdorsal tufts on abdomen mottled black and brown; abdomen otherwise light brown. Primaries brown, irrorated with black; veins yellowish except the subcostal; the black irrorations forming indistinct spots on costa, in cell, and on inner margin; a large outer dark spot between 3 and 5 cut by vein 4; just beyond cell a fine whitish line, cut by veins, a subterminal wavy black line partly edged with white; terminal white spots between the veins; on basal third between veins 1b and 1c, an oval silvery spot, preceded and followed by smaller silvery white spots. Secondaries brown; the costal margin buff; veins 6 and 7 on secondaries from a point. Expanse, 26 mm.

Habitat: São Paulo, Brazil.

Givira watsoni.

Head and thorax brown, mottled with gray and white hairs; abdomen brown, tinged with olivaceous on last segment. Primaries: base brown, followed by a broad darker brown band, outwardly curved below the cell from costa to vein 1b, enclosing above vein 1b a small white spot; median space whitish, irrorated with brown, crossed by a fine dark broken line; close to end of cell a narrow brown shade, widening towards inner margin; beyond the cell a dark streak on veins 5 and 6; a dark subterminal brown line, widening before apex, slightly lunular between the veins, and shaded with white on either side; the outer margin brown. Secondaries brown with traces of darker spots near apex. Expanse, 25 mm.

Habitat: Pernambuco, Brazil.

Eugivira.

Antennæ reclinatæ. Primaries: neuration as in *Givira* Walk. Secondaries: veins 6 and 7 stalked.

GROUP I. VEIN 8 CONNECTED WITH 7 BY A BAR.

<i>Juturna</i> Schs. (<i>Dolecta</i>).	<i>Cæstroides</i> H. S. (<i>Hypofta</i>) 7 & 8
<i>Aroa</i> Schs. (<i>Langsdorfia</i>).	on primaries on very short stalk.
<i>Tecmessa</i> Schs. (<i>Givira</i>).	<i>Arbeloides</i> Dyar (<i>Inguromorpha</i>).
<i>Philomela</i> Schs. (<i>Givira</i>).	<i>Sabulosa</i> Schs. sp. nov.
	<i>Quadra</i> Schs. sp. nov.

GROUP II. VEIN 8 FREE.

<i>Durangona</i> Schs. sp. nov.	<i>Plagiata</i> Schs. sp. nov.
<i>Carisca</i> Schs. sp. nov.	<i>Pardana</i> Schs. sp. nov.
<i>Pallidicosta</i> Schs. sp. nov.	<i>Pulverosa</i> Hamps. (<i>Givira</i>).
<i>Nudaria</i> Schs. sp. nov.	

Eugivira sabulosa.

Body light brown. Primaries light brown, irrorated with darker brown, and blackish lines, forming indistinct shades and stræ; blackish spots on costa; an interrupted blackish inner line; a dark spot at the end of the cell; an outer irregular dark line, connected with the submarginal irregular shadings, and the terminal dark blotches, by dark lines from vein 3 to inner angle, and along vein 4, also about veins 7 and 8; fringe mottled, light and dark brown. Secondaries brown with irregular darker transverse stræ on outer half. Expanse, 37 mm.

Habitat: São Paulo, Brazil.

Eugivira quadra.

Body gray; darker transverse shadings on abdomen. Primaries: costa whitish with four black spots, a long black streak and then a shorter black streak; cell whitish, irrorated with light brown; a dark spot at end of the cell; basal half of wing below medium vein reddish brown, this space ending at origin of vein 2 above, and below on inner margin at 1b; beyond this to vein 3 is a whitish space slightly irrorated with brown at inner angle; above vein 3 and beyond cell the wing is thickly irrorated with brown, shading to buff at apex and extreme outer margin. Secondaries whitish, irrorated with brown above vein 3, and with traces of broken lines towards apex; an indistinct grayish spot at end of cell. Expanse, 37 mm.

Habitat: São Paulo, Brazil.

This species has vein 1c as in *E. arbeloides* Dyar.

Eugivira durangona.

Head and thorax pale buff. Abdomen white with a subdorsal blackish tuft. Primaries white; some dark points along costa; on middle of inner margin a cluster of reddish brown and black scales; an indistinct reddish brown shade beyond cell; three outer rows of minute and indistinct grayish spots between the veins. Secondaries white, covered with small indistinct grayish spots except on inner margin. Both wings with an interrupted dark terminal line; fringe white, mottled with light reddish brown. Expanse, 26 mm.

Habitat: Durango, Colorado?.

Eugivira carisca.

Head, collar and thorax buff, laterally shaded with brown; posteriorly on thorax a tuft of reddish brown scales, and subdorsally on second segment of abdomen a similar tuft. Primaries whitish; at base a cluster of large dark brown spots separated by veins, and not below vein 1b; a similar space below origin of vein 2 to inner margin, where it is widest, and merely divided by vein 1b and 1c; a round brown spot in cell before its end; just beyond the cell a bright brownish red spot; the outer space above vein 1 irrorated with brown, forming large spots subterminally from veins 3-8; costal margin spotted with brown; apex and outer margin thickly irrorated with brown. Secondaries grayish white. Expanse, 23 mm.

Habitat: Jalapa, Mexico.

Eugivira pallidicosta.

Body dark gray. Primaries: costa to near apex broadly white, shaded below through cell and to apex with dark brown; the basal half of wing and inner margin is shaded with reddish brown, otherwise the wing is pale gray with about seven very broken transverse brownish lines, consisting chiefly of clusters of scales at the veins. Secondaries white. Both wings with dark geminate spots terminally at veins; fringe whitish, divided by a dark gray line. Expanse, 24 mm.

Habitat: Castro, Parana.

Eugivira nudaria.

Body mottled gray and pale brown, the former color predominating. Primaries light gray, irrorated with white specks and striated with darker gray, forming indistinct bands, especially on outer portion; the inner margin with some black striæ; costal margin spotted with black, the second from base large, and prolonged as a black streak to vein 1b, the fourth also large and crossing cell. Secondaries whitish, striated with gray on outer half. Both wings with terminal grayish spots at veins, fringe mottled gray and white. Expanse, 35 mm.

Habitat: Aroa, Venezuela.

Eugivira plagiata.

Body brown. Primaries gray, shaded with light brown at base and on inner margin; the outer portion mottled with white and brownish gray striæ; a dark brown spot on costa near base; a larger brown spot below cell a little more remote from base; a spot at end of cell, and another below vein 2; a subterminal brown spot between 4 and 5, larger ones between 6 and 8, and a minute one on costa before apex; terminal grayish brown spots at veins; fringe mottled gray, buff, and pale brown. Secondaries dark grayish brown, paler terminally with dark spots at the veins, and a dark subterminal shade below costa; fringe mottled buff and brown. Expanse, 38 mm.

Habitat: Aroa, Venezuela.

Eugivira pardana.

Thorax light brown with darker markings. Primaries light brown; a basal, inner, outer and subterminal row of round, dark brown spots, edged with whitish; the basal and inner row nearly straight, the outer curved beyond cell and geminate above vein 5; the submarginal spots very large between veins 4 to 7, the one between 5 and 6 nearer the outer margin; some dark spots in cell between the median and outer rows; two spots above inner margin between outer and subterminal rows; terminal dark spots at veins, those above veins 2-4 elongated obliquely to vein above; the terminal spots extending on to fringe. Secondaries with traces of darker, transverse, irregular and broken lines. Expanse, 30 mm.

Habitat: São Paulo, Brazil. Antennæ serrate fasciculate.

ARBELIDÆ.

Langsdorfia coresa.

Body dark brown. Primaries grayish brown, with dark brown markings; small

spots on costa, in cell, and below it; inner margin with transverse streak; a reddish brown shade at end of cell; marginal space with reticulations; below costa a large subterminal spot, and smaller spots below it to vein 3, these spots partly edged with white. Secondaries dark brown, with still darker streaks and reticulations. Expanse, 27 mm.

Habitat: Colombia.

HEPIALIDÆ.

Phassus trojesa.

Head and thorax black. Abdomen black; transverse pale buff lines posteriorly. Primaries gray, covered with minute black striæ edged with light brown; basal third of vein 1b broadly white; below this vein, at base, a long black spot; at end of cell a white spot close to vein 6; a medium brownish shade from end of cell to vein 1b, between which and median vein, it is very dark; a broad subterminal brown band, outwardly curved between 5 and 8; outer margin and fringe dark brown with triangular paler spots; some white shades before apex; costal margin with dark spots. Secondaries grayish brown; light brown hairs at the base; some of the veins on outer margin light brown; fringe light brown; two dark spots on costa before apex; fringe spotted with brown towards apex. Expanse, 70 mm.

Habitat: Trojes, Mexico.

Dalaca tesselloides.

Body pale brown. Primaries pale brown; the cell and spaces between the veins evenly filled with geminate darker streaks, somewhat curved towards each other and surrounded by a buff shade, but not forming complete circles; beyond the cell from vein 4 to 7 is a line, inwardly shaded with buff. Secondaries light reddish brown. Expanse, 62 mm.

Habitat: Paraguay.

Dalaca basirubra.

Head and thorax dark brown, the later somewhat paler posteriorly. Abdomen brown; the base dorsally with long red hairs. Primaries dark gray; the space between the subcostal and median shaded with dark ochreous brown; near base of cell a small golden yellow spot; three similar spots at origin of vein 6; some similar scales above cross vein connecting 2 and 3; an outer, subterminal and marginal row of dark ochreous brown spots, the outer row shaded with brighter ochreous between veins 4-7; above vein 1b two dark velvety brown spots, partly edged with light gray. Secondaries light brown, with long reddish hairs at base. Expanse, 80 mm.

Habitat: Peru.

Cibyra dorita.

Head and thorax dark brown. Abdomen fawn color. Primaries: costal and inner margins violaceous brown; the space between veins 2-7 dull golden, crossed by the reddish veins, and dull lilacine brown blotches, edged with reddish; a silver spot at base of cell, and another towards vein 2; a large silver spot at end of cell, and a series of silver spots between veins 5 and 7. Secondaries buff at the base, shading

to reddish on the outer margin; fringe dark at the base, terminally pale. Expanse, 33 mm.

Habitat: Castro Parana.

Cibyra poltrona.

Head and thorax ochreous brown. Abdomen buff. Primaries ochreous brown on costa and inner margin, the intermediate space more ochreous; on terminal half some indistinct transverse lines, darker than the ground color, inwardly edged with a paler shade; these lines do not form spots. Secondaries reddish brown, somewhat roseate in the cell. Expanse, 40 mm.

Habitat: Castro. Parana.

Cibyra dormita.

Head and thorax dark brown. Abdomen light brown. Primaries reddish brown shaded with gray on basal half of inner margin, and within the outer line, especially towards costa; an oblique darker shade from base of subcostal to middle of inner margin; the outer line fine, dark gray, shaded with lighter gray, and followed by a broad reddish brown shade; subterminal grayish spots between the veins; some silvery white spots outlined with black, one at base of cell, a larger oblique spot at end of cell, some minute spots on veins 5 and 6 beyond the outer line, a minute spot at vein 2. Secondaries blackish brown; the outer margin and fringe light brown. The female has a terminal white spot between veins 7 and 8, and 8 and 9. Expanse, ♂ 40 mm., ♀ 68 mm.

Habitat: Petropolis.

Cibyra brunnea.

Body brown. Primaries light brown; the costa spotted with black; a basal, and a geminate inner oblique row of dark brown spots; a median row of large brown spots, elongated below costa, and above inner margin shaded on either side with fawn color; three silvery spots at origin of vein 6; a broad outer brown shade, forming spots below vein 5, these spots edged on either side with dark brown and then fawn color; a subterminal row of dark lunular spots outwardly edged with fawn color; the fringe light brown with darker blotches. Secondaries dull blackish brown. Expanse, 31 mm.

Habitat: Aroa, Venezuela.

NOTES ON LEPIDOPTEROUS LARVÆ FROM JAMAICA, B. W. I.

BY MRS. E. M. SWAINSON.

Papilio homerus *Fabr.*

The caterpillar is most peculiar, and differs from the rest of the larvæ of the Papilionidæ in not having the two fleshy retractile ten-